

Application Serial No. 10/501,064

OT-4995

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended): A method of monitoring the functionability of a brake lining-(10, 12) lining, comprising the following steps:
measuring a value that characterizes the dielectric constant of the lining-material, wherein the lining-material is provided between a first, pressing braking member and a second, pressed braking member;
comparing the measured value with a reference value for the lining-material; and determining the functionability when the measured value is within a specific tolerance range,
wherein, when the brake is actuated, the lining contacts the first, pressing braking member and the second, pressed braking member.
2. (Currently Amended): A method as claimed in claim 1, characterized in thatwherein the measured value is determined by a static capacitance measurement.
3. (Currently Amended): A method as claimed in claim 1 or 2, characterized by the further comprising the step of performing a conduction measurement.
4. (Currently Amended): A method as claimed in one of claims 1 to 2, characterized by the further further comprising the step of providing at least two conductors-(34, 36) located in the lining-material.
5. – 8 (Canceled).

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9. (Currently Amended): A brake-brake (2) comprising:
a first, pressing braking member;
a second, pressed braking member
a brake lining (10, 12) provided between the first and second braking members, the
brake lining comprising a brake lining material; and
a brake lining monitoring device which is constructed so that it can determine the
functionability of the brake lining (10, 12) on the basis of a change in the
dielectric constant of the brake lining material,
wherein, when the brake is actuated, the lining is configured to contact the first,
pressing braking member and the second, pressed braking member.

10. (Currently Amended): A brake-brake (2) comprising:
a brake lining (10, 12) according to one of claims 5 or 6; comprising:
a lining; and
at least two conductors arranged in the lining in a way so that the conductors
can be used to perform a capacitance measurement; and
a brake lining monitoring device which is constructed so that it can determine the
functionability of the brake lining (10, 12) on the basis of a change in the
dielectric constant of the brake lining material,
wherein the lining is configured to be provided between a first, pressing braking
member and a second, pressed braking member,
wherein the lining includes a braking surface, and
wherein the conductors are arranged in a plane that is substantially parallel to the
braking surface of the lining.

11. (Currently Amended): A brake-brake (2) as claimed in claim 10, characterized in
that wherein the brake lining monitoring device comprises a resistance which, in conjunction
with the capacitance emitted by the at least two conductors (34, 36) forms an oscillating
circuit.

12. – 13. (Canceled).

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14. A method as claimed in claim 1, wherein the lining includes a braking surface, wherein at least one conductor is arranged in the lining, and wherein the at least one conductor is arranged in a plane that is substantially parallel to the braking surface of the brake lining.

15. A brake as claimed in claim 9, wherein the lining includes a braking surface, wherein at least one conductor is arranged in the lining, and wherein the at least one conductor is arranged in a plane that is substantially parallel to the braking surface of the brake lining.